	Ch-II
	Ch-17
Andrew Top	
I	Inserting n elements using
	- CIEDEN-IE CO
1	a] Aggregate Method:-
EDIT	of the state of the bustone
-	the table doubles in size when it
Ca	ours out of space) raday
- A	
7	so it the original size is 1, after
	insextion it doubled to size 2, after
	2 more inserting, it doubles to size
	4, etc. forther professional Ed
- Gi -	
A	In general after K doublings, the size
	is 2k.
Sec.	To 9812 GE 35/11 Och 3/dist gett graffen
	Pseudo codes- 1 4 130 mm
Deve	Initialize table with capacity = 1
6 /	and the second of the second
h	For i = 1 ton
	if table PN Full that Intal
	new table - create newtable with
	size 2x rount size
	copy elements from old table to
	new terble
	table = new table
	Att 40 - All All Andrews and Att and a second and all and a second
-	Prosent element on i Proto toble
	Marine Committee of Carl Marine Committee of Carlottee of

Let k= log (n+1)-1 Total cost = o(n) *K - O(n logn) Amoitized cost per insertion = o (log) Runtime per insertion is o (logn) Total time is o(n) k log (n+D) b] Accounting Method charge 2 units For each insertion when the table doubles in Size, From mlo-2m, credit to units The credit exactly pay for the copy Total credit is M+ 2m + 4M + ... n/2*m-oco



Pseudo code

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C

institutive terble with capacity -

For i= 1 to n

If table is Full!

new table: (reale Hewtable with

size 2 & current size

copy elements from old table to new table table newtable

Grinsert element + i into tuble

initialize credits -0

For i=1 ton: chargest=2

17 terble doubled in size from m to 2 m

Ptul cherryes - 2 = n - o(n)

Total credits = m+ 2m ... n/2km = o(n)

Amortized cost per insertion: Totally - o(n)/n = o(1)

